

Creating PivotTableInPythonUsingPandas

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```
[1]: import pandas as pd
```

```
[2]: # creating dataframe
df = pd.DataFrame({'Product': ['Carrots', 'Broccoli', 'Banana', 'Banana',
                                'Beans', 'Orange', 'Broccoli', 'Banana'],
                    'Category': ['Vegetable', 'Vegetable', 'Fruit', 'Fruit',
                                 'Vegetable', 'Fruit', 'Vegetable', 'Fruit'],
                    'Quantity': [8, 5, 3, 4, 5, 9, 11, 8],
                    'Amount': [270, 239, 617, 384, 626, 610, 62, 90]})

df
```

```
[2]:   Product Category  Quantity  Amount
0    Carrots  Vegetable        8     270
1   Broccoli  Vegetable        5     239
2     Banana      Fruit        3     617
3     Banana      Fruit        4     384
4      Beans  Vegetable        5     626
5     Orange      Fruit        9     610
6   Broccoli  Vegetable       11     62
7     Banana      Fruit        8     90
```

```
[3]: pivot = df.pivot_table(index=['Product'],
                           values=['Amount'],
                           aggfunc='sum')

print(pivot)
```

```
          Amount
Product
Banana      1091
Beans        626
Broccoli     301
Carrots      270
Orange       610
```

```
[4]: # creating pivot table of total
# sales category-wise aggfunc = 'sum'
pivot = df.pivot_table(index=['Category'],
                       values=['Amount'],
```

```
                aggfunc='sum')  
print(pivot)
```

```
Amount  
Category  
Fruit      1701  
Vegetable   1197
```

```
[5]: pivot = df.pivot_table(index=['Product', 'Category'],  
                           values=['Amount'], aggfunc='sum')  
print(pivot)
```

```
Amount  
Product  Category  
Banana    Fruit      1091  
Beans     Vegetable   626  
Broccoli  Vegetable   301  
Carrots   Vegetable   270  
Orange    Fruit      610
```

```
[6]: # 'mean', 'min'} will get median, mean and  
# minimum of sales respectively  
pivot = df.pivot_table(index=['Category'], values=['Amount'],  
                       aggfunc={'median', 'mean', 'min'})  
print(pivot)
```

```
Amount  
      mean median min  
Category  
Fruit      425.25  497.0  90  
Vegetable  299.25  254.5  62
```

```
[7]: pivot = df.pivot_table(index=['Product'], values=['Amount'],  
                           aggfunc={'median', 'mean', 'min'})  
print(pivot)
```

```
Amount  
      mean median min  
Product  
Banana    363.666667 384.0  90  
Beans     626.000000 626.0  626  
Broccoli  150.500000 150.5  62  
Carrots   270.000000 270.0  270  
Orange    610.000000 610.0  610
```

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[ ]:
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